

Serial No. 10/014,653
Art Unit 1755

1 Amendment To The Claims Section

2 1. (currently amended): A dry blended cementitious composition
3 ~~comprising~~ consisting of cement and CKD ~~as major components~~ and
4 having a weight ratio of cement to CKD between about 2/3 and 3/1.

5 2. (original): The dry cementitious composition of claim 1, wherein
6 the weight ratio is no greater than about 7/3.

7 3. (original): The dry cementitious composition of claim 1, wherein
8 the weight ratio is no greater than about 3/2.

9 4.-6. (canceled)

10 7. (currently amended): A hydraulic cementitious slurry comprising:
11 a predetermined amount of a dry blended cementitious
12 composition ~~which comprises~~ consisting of cement and CKD ~~as major~~
13 ~~components and has with~~ a weight ratio of cement to CKD ~~is~~ between
14 about 2/3 and 3/1; and
15 a predetermined amount of water of at least about 6 gallons
16 per 94 lb. sack of the dry cementitious composition.

17 8. (original): The hydraulic cementitious slurry of claim 7,
18 wherein the weight ratio of cement to CKD is no greater than about
19 7/3.

20 9. (original): The hydraulic cementitious slurry of claim 7,
21 wherein the weight ratio of cement to CKD is no greater than about
22 3/2.

23 10.-11. (canceled)

Serial No. 10/014,653
Art Unit 1755

12. (original): The hydraulic cementitious slurry of claim 7, wherein the predetermined amount of water is no greater than about 12 gallons per sack of the dry cementitious composition.

13. (currently amended): A hard cured cementitious body produced by curing the hydraulic cementitious slurry of claim 7, wherein the predetermined amount of a the dry blended cementitious composition ~~which comprises cement and CKD~~, the weight ratio of cement to CKD, and the predetermined amount of water per 94 lb. sack of the dry blended cementitious composition are effective values for causing the hard cured cementitious body to have a compressive strength of at least about 1000 psi and a maximum permeability no greater than 0.1 md.

14.-15. (canceled)

16. (currently amended): A process for forming a hydraulic cementitious slurry effective for closing an abandoned well, and for closing the abandoned well, comprising:

(a) dry blending a predetermined amount of cement and a predetermined amount of CKD to produce a dry blended cementitious composition consisting of the cement and the CKD, and wherein the predetermined amounts of cement and CKD ~~having~~ have a weight ratio of cement to CKD between about 2/3 and 3/1; and

(b) slurrying the dry blended cementitious composition with a predetermined amount of water sufficient to form a hydraulic cementitious slurry effective for closing ~~an~~ the abandoned well;

(c) installing the hydraulic cementitious slurry in the abandoned well; and

(d) allowing the hydraulic cementitious slurry to cure in the abandoned well and form a competent hard plug having a compressive

Serial No. 10/014,653
Art Unit 1755

1 strength of at least about 1000 psi with a maximum permeability of
2 0.1 millidarcey in the abandoned well.

3 18.-26. (cancelled)

4 27. (new): The process of claim 16 wherein the dry blending of the
5 predetermined amounts of CKD and cement comprises:

6 (a) loading into a suitable transporting container at a cement
7 producing source site the predetermined amount of CKD;

8 (b) thereafter, loading into the container at the cement producing
9 source site, a predetermined amount of cement on top of the CKD,
10 the predetermined amounts producing the weight ratio of cement to
11 CKD between about 2/3 and about 3/1; and

12 (c) transporting the transporting container site to an off-loading
13 site and allowing vibration of the transporting container during
14 transit to automatically dry blend the cement and CKD sufficiently
15 for forming an effective hydraulic cementitious slurry when
16 slurried with water, without requiring any further dry blending of
17 the cement and CKD after off-loading from the transporting
18 container.

19 28. (new): The process of claim 27, wherein the weight ratio of
20 cement to CKD is between about 2/3 and about 7/3.

21 29. (new): A process for producing a dry blended cementitious
22 composition suitable when slurried with water for forming an
23 effective hydraulic cementitious slurry, the dry blended
24 cementitious composition consisting of cement and CKD having a
25 weight ratio of cement to CKD between about 2/3 and 3/1, the
26 process comprising:

Serial No. 10/014,653
Art Unit 1755

1 (a) loading into a suitable transporting container at a cement
2 producing source site a predetermined amount of CKD; thereafter,
3 (b) loading into the container at the cement producing source
4 site, a predetermined amount of cement on top of the CKD, the
5 predetermined amounts producing the weight ratio of cement to CKD
6 between about 2/3 and about 3/1; and thereafter
7 (c) transporting the transporting container site to an off-loading
8 site and allowing vibration of the transporting container during
9 transit to automatically dry blend the cement and CKD sufficiently
10 for forming an effective hydraulic cementitious slurry when
11 slurried with water, without requiring any further dry blending of
12 the cement and CKD after off-loading from the transporting
13 container.

14 30. (new): A dry blended cementitious composition comprising CKD
15 and cement,
16 wherein the cement is about 40% by weight of the dry blended
17 cementitious composition, and
18 the CKD is about 60% by weight of the dry blended cementitious
19 composition.

20 31. (new): A blended dry cementitious composition comprising CKD
21 and cement,
22 wherein the cement is about 50% by weight of the dry blended
23 cementitious composition, and
24 the CKD is about 50% by weight of the dry blended cementitious
25 composition.

26 32. (new): A dry blended cementitious composition comprising CKD
27 and cement,

Serial No. 10/014,653
Art Unit 1755

1 wherein the cement is about 60% by weight of the dry blended
2 cementitious composition, and
3 the CKD is about 40% by weight of the dry blended cementitious
4 composition.

5 33. (new): A dry blended cementitious composition comprising CKD
6 and cement,
7 wherein the cement is about 70% by weight of the dry blended
8 cementitious composition, and
9 the CKD is about 30% by weight of the dry blended cementitious
10 composition.

11 34. (new): A hydraulic cementitious slurry comprising:
12 a predetermined amount of the dry blended cementitious
13 composition of 30; and
14 a predetermined amount of water of at least about 6
15 gallons per 94 lb. sack of the dry blended cementitious
16 composition.

17 35. (new): A hydraulic cementitious slurry comprising:
18 a predetermined amount of the dry blended cementitious
19 composition of 31; and
20 a predetermined amount of water of at least about 6
21 gallons per 94 lb. sack of the dry blended cementitious
22 composition.

23 36. (new): A hydraulic cementitious slurry comprising:
24 a predetermined amount of the dry blended cementitious
25 composition of 32; and

Serial No. 10/014,653
Art Unit 1755

1 a predetermined amount of water of at least about 6
2 gallons per 94 lb. sack of the dry blended cementitious
3 composition.

4 37. (new): A hydraulic cementitious slurry comprising:
5 a predetermined amount of the dry blended cementitious
6 composition of 33; and
7 a predetermined amount of water of at least about 6
8 gallons per 94 lb. sack of the dry blended cementitious
9 composition.

10 38. (new): A competent hard cured cementitious body produced by
11 introducing the hydraulic cementitious slurry of claim 34, into an
12 abandoned well, and allowing the slurry to cure therein, thereby
13 forming a competent hard cured cementitious body to having a
14 compressive strength of at least about 1000 psi and a maximum
15 permeability no greater than 0.1 md.

16 39. (new): A competent hard cured cementitious body produced by
17 curing the hydraulic cementitious slurry of claim 35, into an
18 abandoned well, and allowing the slurry to cure therein, thereby
19 forming a competent hard cured cementitious body to having a
20 compressive strength of at least about 1000 psi and a maximum
21 permeability no greater than 0.1 md.

22 40. (new): A competent hard cured cementitious body produced by
23 curing the hydraulic cementitious slurry of claim 36, into an
24 abandoned well, and allowing the slurry to cure therein, thereby
25 forming a competent hard cured cementitious body to having a
26 compressive strength of at least about 1000 psi and a maximum
27 permeability no greater than 0.1 md.

Serial No. 10/014,653
Art Unit 1755

1 41. (new): A competent hard cured cementitious body produced by
2 curing the hydraulic cementitious slurry of claim 37, into an
3 abandoned well, and allowing the slurry to cure therein, thereby
4 forming a competent hard cured cementitious body to having a
5 compressive strength of at least about 1000 psi and a maximum
6 permeability no greater than 0.1 md.